



```
101 class example {
102     public synchronized int inner_foo(int x, int y) {
103         return x/y;
104     }
105     public synchronized int foo(int x, int y) {
106         return inner_foo(x,y) + x;
107     }
108     public synchronized int bar(int x, int y) {
109         return x/y;
110     }
111     public void go_to_it (String[] args) {
112         int sum=0;
113         for (int i=0;i < 1000;i++) {
114             try {
115                 sum += foo(i, args.length-1);
116                 sum /= args.length-2;
117                 sum += bar(i, args.length-3);
118             } catch (Exception e) {
119                 System.out.println("caught exception\n");
120             }
121         }
122         System.out.println(sum);
123     }
124     public static void main(String[] args) {
125         example e=new e();
126         e.go_to_it(args);
127     }
128 }
```

FIG. 1

```
201 public void go_to_it (String[] args) {  
202     int sum=0;  
203     for (int i=0;i < 1000;i++) {  
204         try {  
205             synchronized(this) {  
206                 int result;  
207                 synchronized(this) {  
208                     result = i/(args.length-1);  
209                 }  
210                 sum += result+i;  
211             }  
212             sum /= args.length-2;  
213             synchronized(this) {  
214                 sum += i/(args.length-3);  
215             }  
216         } catch (Exception e) {  
217             System.out.println("caught exception\n");  
218         }  
219     }  
220     System.out.println(sum);  
221 }
```

FIG. 2

301 public void go_to_it (String[] args) {
302 int sum=0;
303 for (int i=0;i < 1000;i++) {
304 try {
305 MONITORENTER(this)
306 try {
307 int result;
308 MONITORENTER(this)
309 try {
310 result = i/(args.length-1);
311 MONITOREXIT(this)
312 }
313 catch (Exception e) {
314 MONITOREXIT(this)
315 throw e;
316 }
317 sum += result+i;
318 MONITOREXIT(this)
319 }
320 catch (Exception e) {
321 MONITOREXIT(this)
322 throw e;
323 }
324 sum /= args.length-2;
325 MONITORENTER(this)
326 try {
327 sum += i/(args.length-3);
328 MONITOREXIT(this)
329 }
330 catch (Exception e) {
331 MONITOREXIT(this)
332 throw e;
333 }
334 }
335 catch (Exception e) {
336 System.out.println("caught exception\n");
337 }
338 }
339 System.out.println(sum);
340 }

300

FIG. 3

400 ↗

201-205	-
206-207	0
208-209	1
210-211	0
212-213	-
214-215	0
216-221	-

FIG. 4

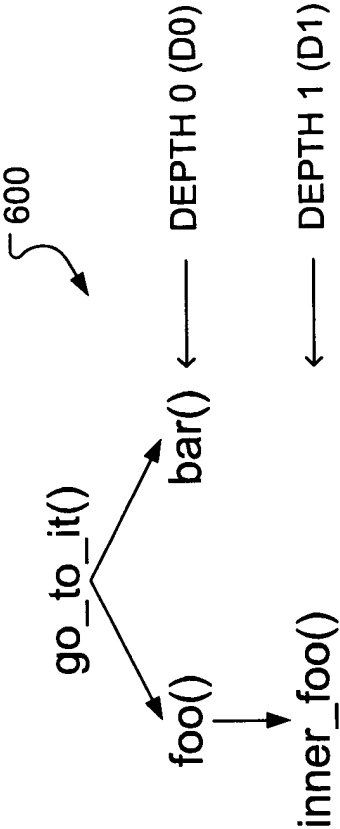


FIG. 6

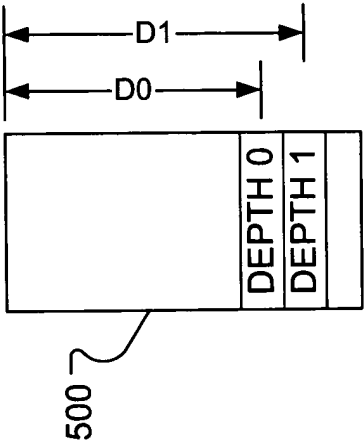


FIG. 5

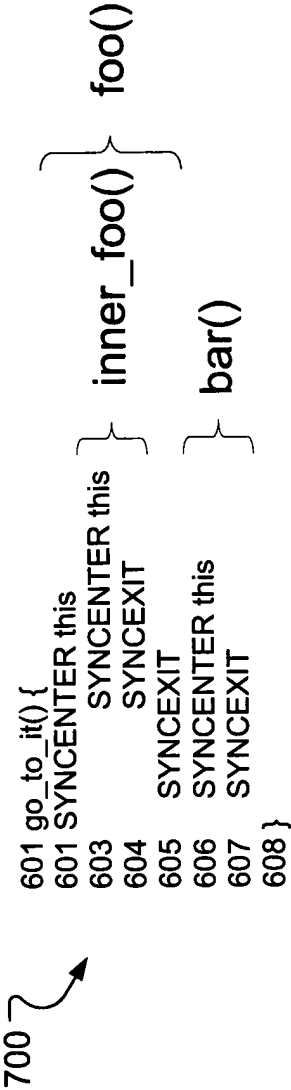
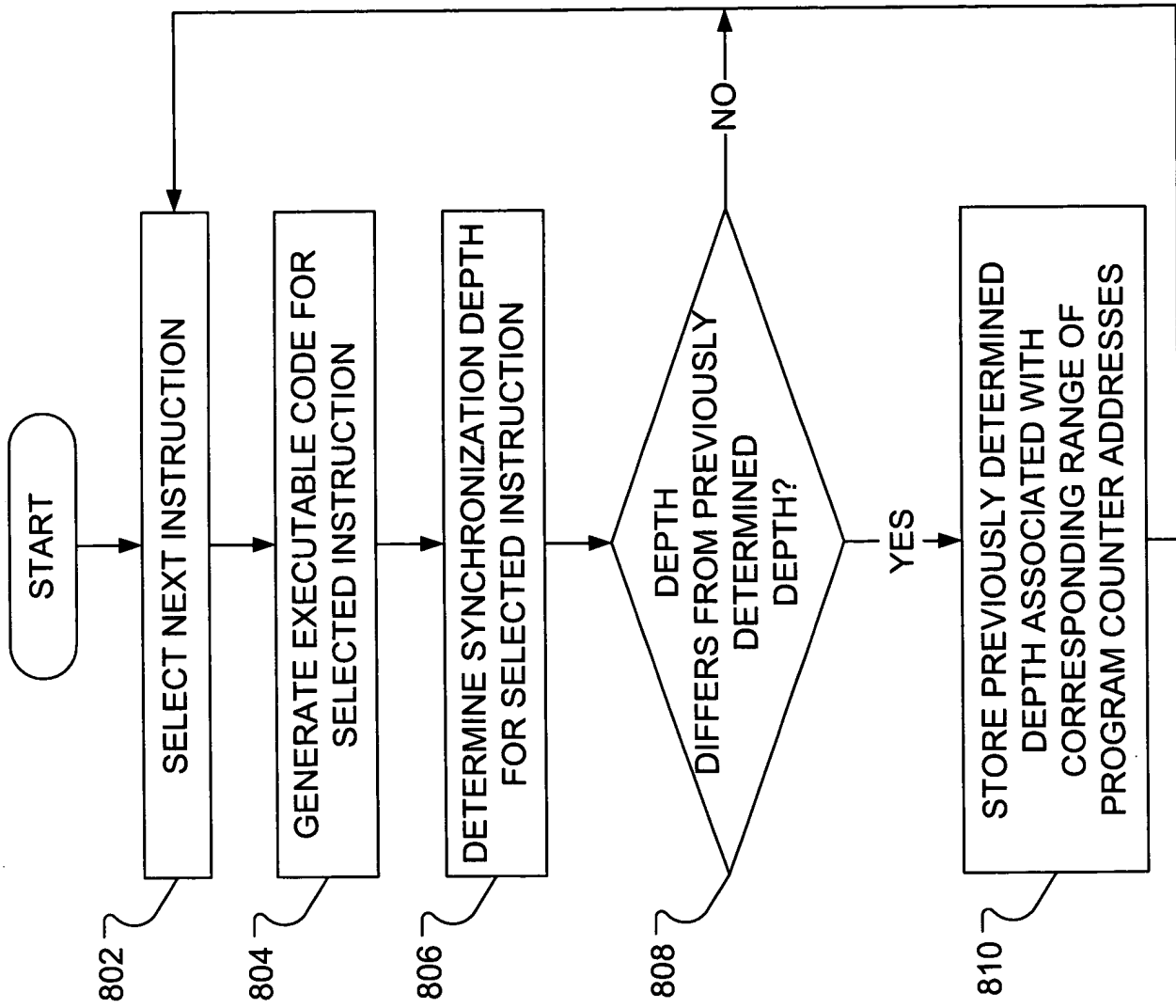
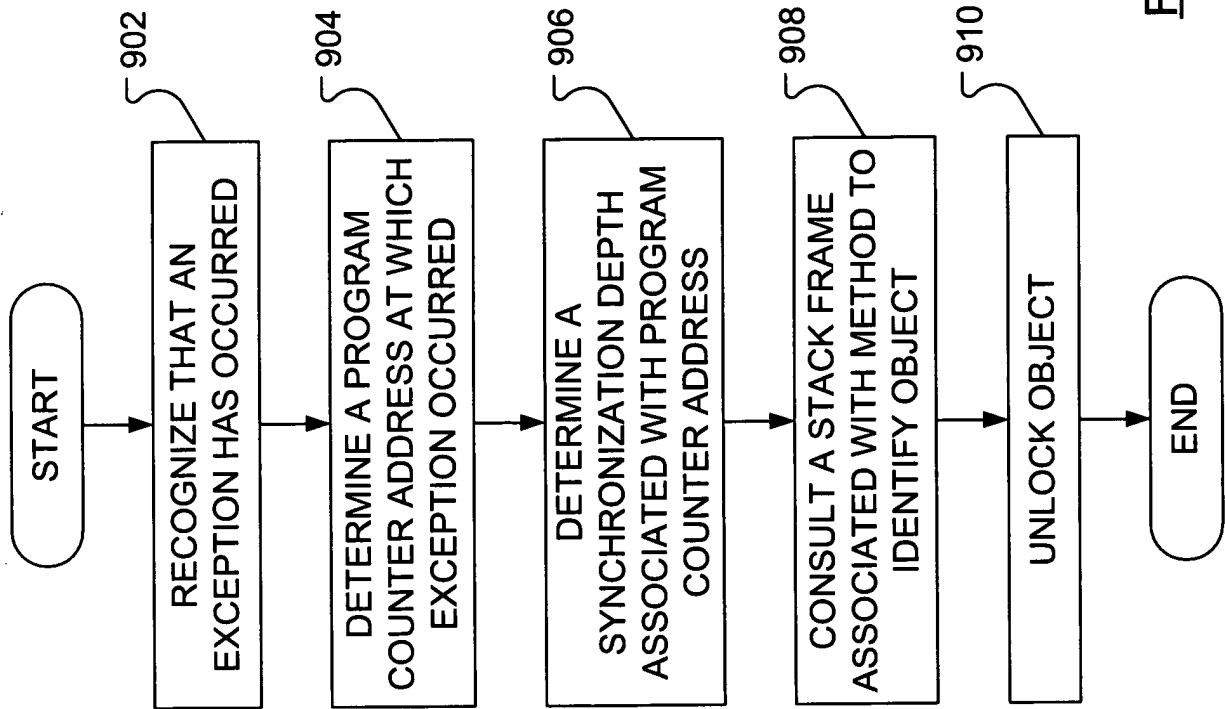


FIG. 7

**FIG. 8**

FIG. 9